The Intelligent Surveillance Solution

# SCB-C08
## USB to RS232/422/485 Converter



## Specifications

| | |
|---|---|
| **USB Interface** | Compliant with USB V1.0 and V2.0 |
| **RS-232 signal** | 5 full-duplex (TXD, RXD, CTS, RTS, GND). |
| **RS-422 signal:** | 4 half-duplex wires (TX+, RX+, TX-, RX- ). |
| **RS-485 signal:** | 2 half-duplex wires (D+, D-). |
| **Cable Type** | USB type A to type B. |
| **Transmission distance** | RS485 Up to 4000ft (1200M). |
| **Signal LED** | Power on, TX, RX. |
| **Direct power from USB port** | Support |
| **Power consumption:** | 1.2W |
| **Dimension** | 151 x 75 x 26 mm |

## Introduction

**SCB-C08** is an independent control device for managing signals from RS-232, RS-422 and RS-485.

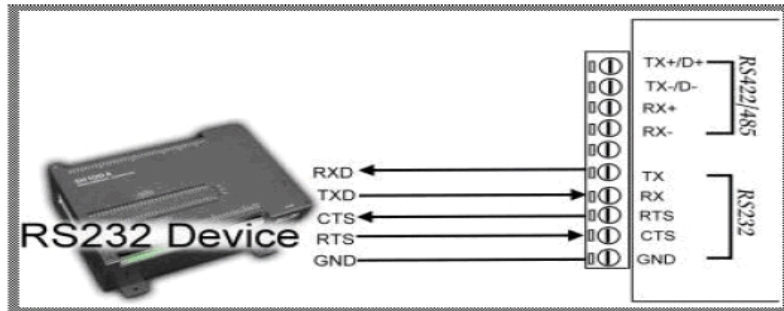Devices such as I/O relay device or speed dome can be easily control by SCB-C08.

**1. Power Connection (USB Internal Bus)**
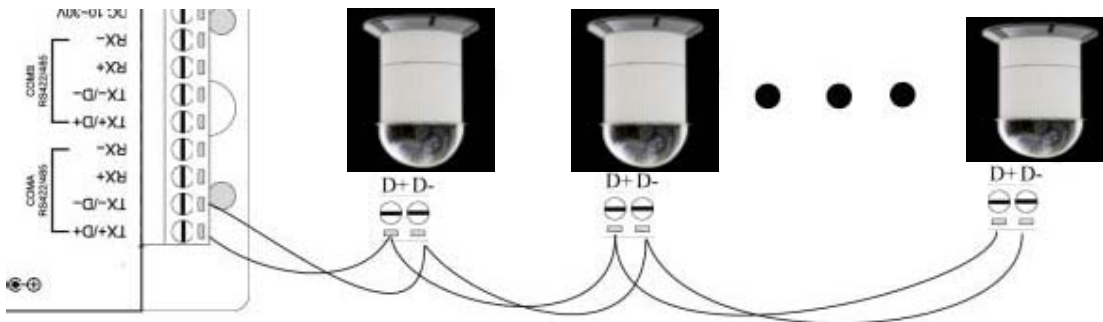Direct power input from USB bus port, current 100mA/+5V, no external power necessary

**2. RS-232 wiring connection**
The RS-232 supports 5 channels plus Signal Ground and is configured as DTE like a computer.
Signals are single ended and referred to Ground. To use handshaking or flow control user must set Host PC's RTS/CTS during configuration. Refer to the pin assignment for connection as below.
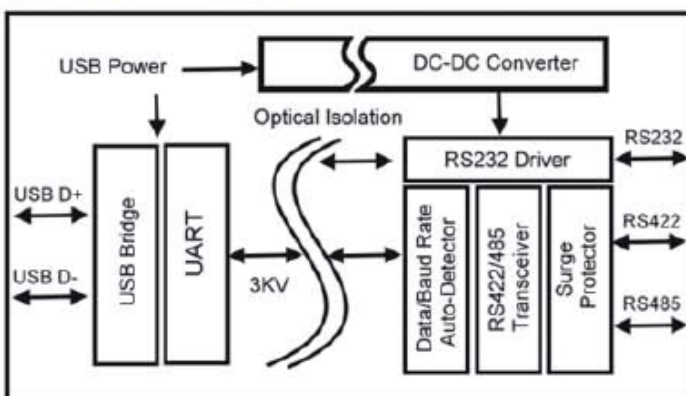


**3. RS-485 Wiring connection**
The RS-485 mode supports the Transmit and Receive channels using 2-wire half-duplex operation. Refer to the pin assignment for connection as below.
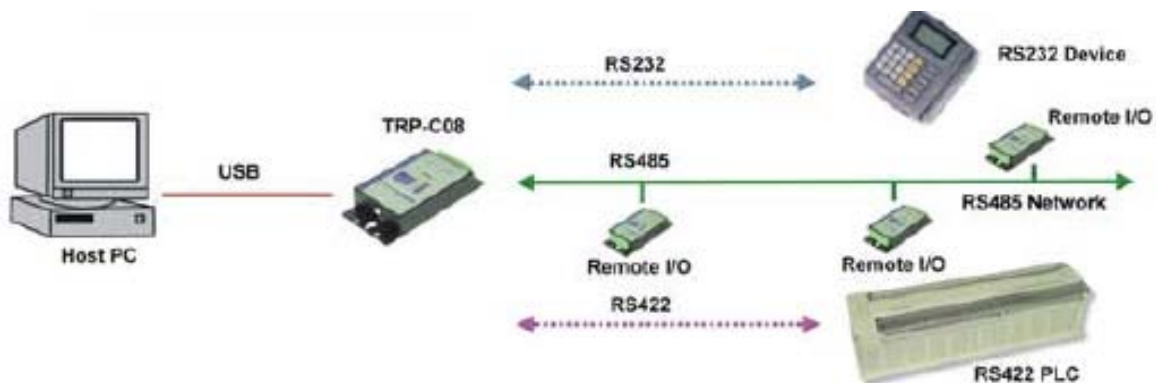


**4. Block Diagram**

## 5. Application Note

# SCB-C24

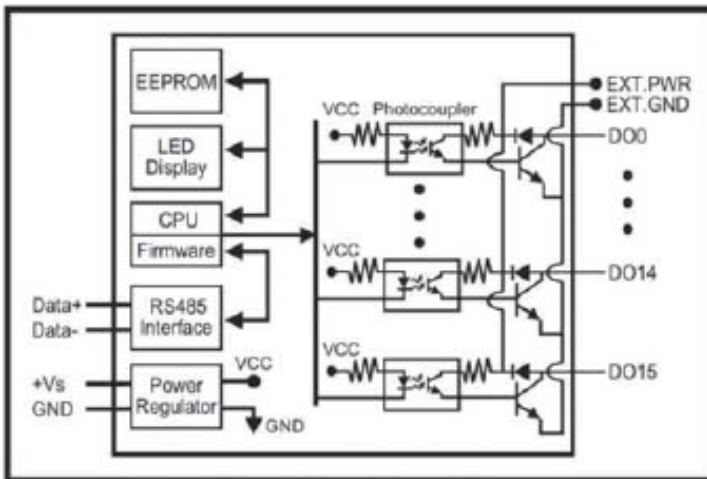## 16-ch Digital Output Insolated RS485 Module



## Specifications

| | |
|---|---|
| **Output Channel** | 16 digital output channels |
| **Communication Interface** | RS-485 differential 2 half / duplex wires |
| **Communication Speed** | Baud rate from 1.2 Kbps to 115.2 Kbps |
| **Transmission distance** | RS485 Up to 4000ft (1200M). |
| **Signal LED** | Power on, all output channels |
| **Dual watchdog** | Reset circuit module / Host operating status |
| **Power supply** | Screw terminal, or external DC adapter |
| **Power consumption:** | 1.5W |
| **Dimension** | 151 x 75 x 26 mm |

## Introduction

**SCB-C26** provides 16 optical isolated digital output channels that allow you to output open collector signal to driven your devices on RS485 network. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. All inputs are equipped with photo-couplers to protect the module against high voltage spikes and ground potential differences.

## 1. Block Diagram

## 2. Application Note

## SCB-C26
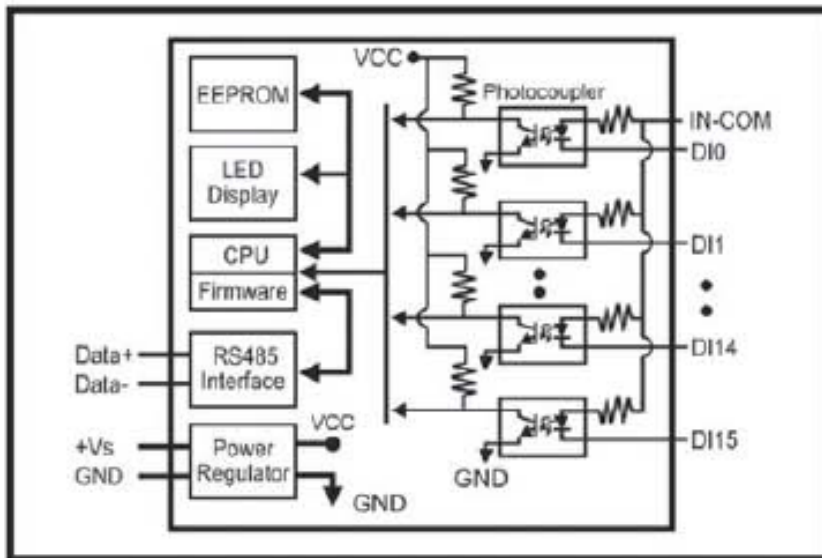### 16-ch Digital Input Insolated RS485 Module



### Specifications

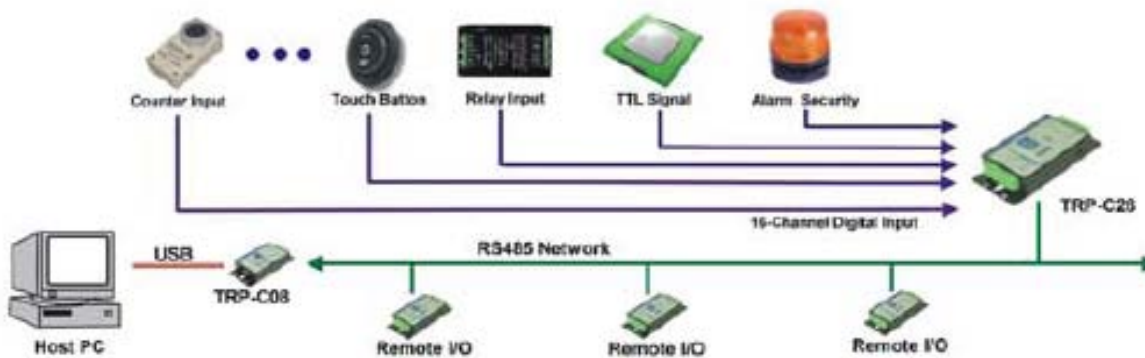| | |
|---|---|
| **Input Channel** | 16 digital input channels with counter |
| **Counter Channel/Frequency** | 16 / 100Hz |
| **Communication Interface** | RS-485 differential 2 half / duplex wires |
| **Communication Speed** | Baud rate from 1.2 Kbps to 115.2 Kbps |
| **Transmission distance** | RS485 Up to 4000ft (1200M). |
| **Signal LED** | Power on, all input channels |
| **Dual watchdog** | Reset circuit module / Host operating status |
| **Power supply** | Screw terminal, or external DC adapter |
| **Power consumption:** | 1.5W |
| **Dimension** | 151 x 75 x 26 mm |

### Introduction

**SCB-C26** provides 16 optical isolated digital input channels and all of them can be used as counter. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. All inputs are equipped with photo-couplers to protect the module against high voltage spikes and ground potential differences.
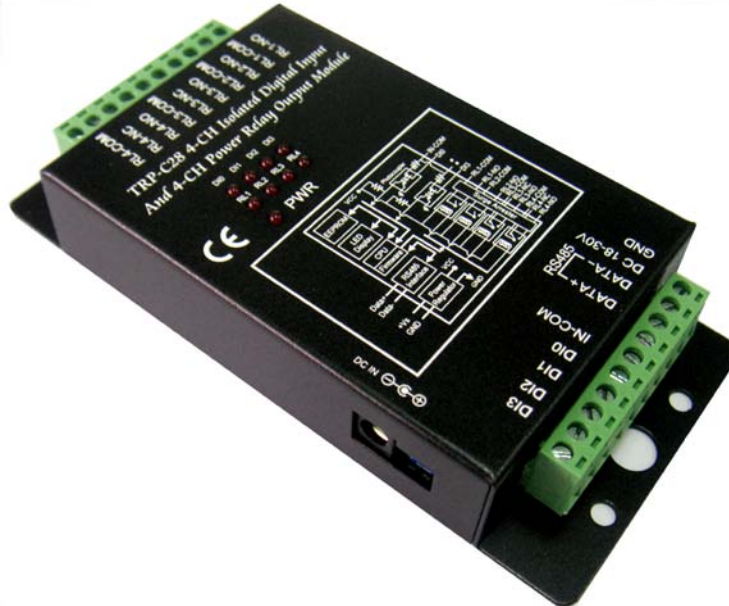
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## 3. Block Diagram



## 4. Application Note

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# SCB-C28

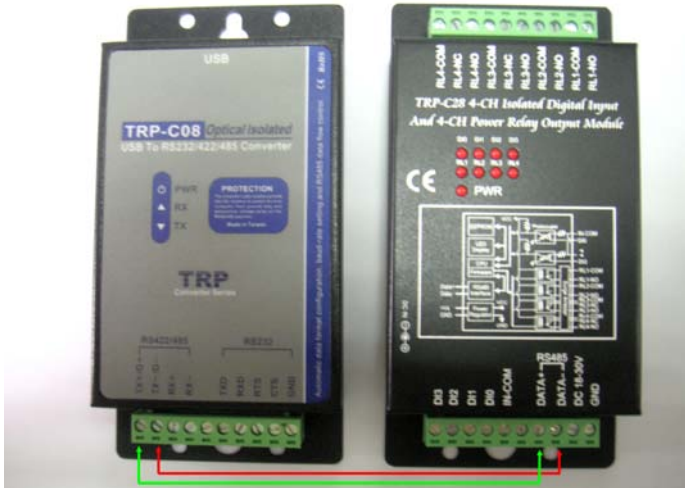## 4ch Isolated Digital Input & 4ch Power Relay Output RS485 module



## Specifications

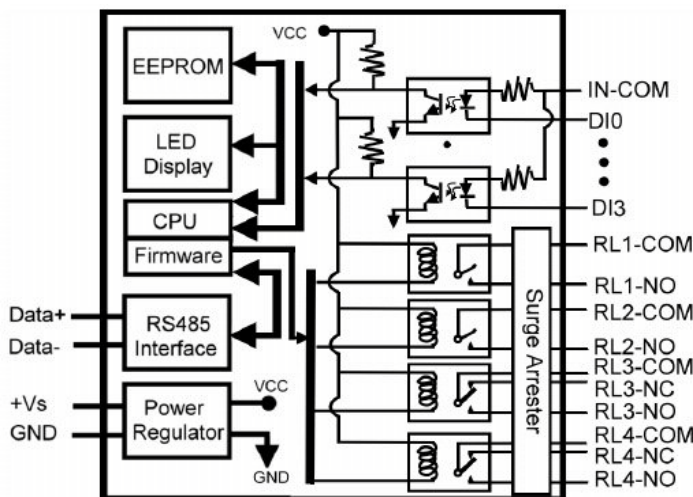| | |
|---|---|
| **Input Channel** | 4 digital input channel |
| **Output Channel** | 4 digital output channel |
| **Counter Channel/Frequency** | 4 / 100Hz |
| **Communication Interface** | RS-485 |
| **Communication Speed** | Baud rate from 1.2 Kbps to 115.2 Kbps |
| **Relay Type** | 2 Form A(R1,R2), 2Form C(R3, R4) |
| **Transmission distance** | 500M |
| **Signal LED** | Power on, all input channels |
| **Dual watchdog** | Reset circuit module / Host operating status |
| **Power supply** | Screw terminal, or external DC adapter |
| **Power consumption:** | 2.7W |
| **Dimension** | 151 x 75 x 26 mm |

## Introduction

**SCB-C28** provides with 4 optical isolated digital input channels and 4 power relays output. All channel features screw terminals for convenient connection of field signals as well as LED's to indicate channel status. SCB-C28 can be easily control by SCB-C08.

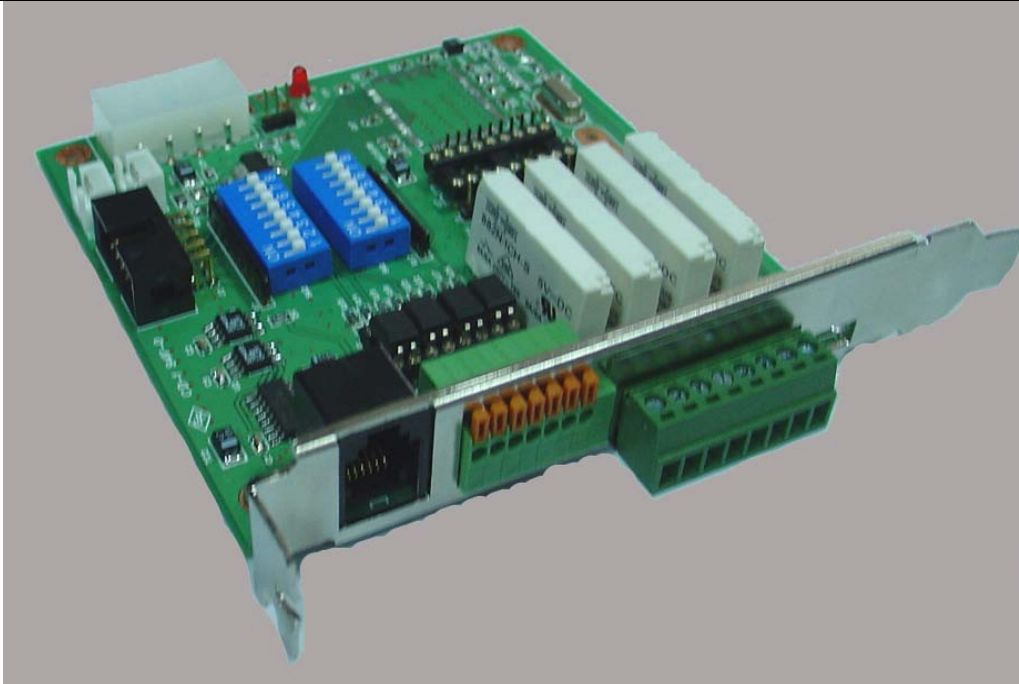## 1. Connection between SCB-C08 and SCB-C28



## 2. Block Diagram



## 3. Application Note

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## SCB-G3-IO



| Specifications | |
|---|---|
| **Model** | SCB-G3-IO |
| **Support Capture Card Model** | SCB-G3-3000, SCB-G3-2000, SCB-G3-1000 Series |
| **Input** | 4 Input |
| **Output** | 4 Output |
| **Dimension** | 105 (W) x 120 (H) mm |

| Introduction |
|---|

**SCB-G3-IO** provides with 4 optical isolated digital input channels and 4 power relays output.
This IO card is only working with SCB-G3-1000, SCB-G3-2000, and SCB-G3-3000 series.



Alarm Input 1-4

Alarm Input 1-4

Ground

RS-485

Relay Out 1-4